

DETACHABLE AND RETRIEVABLE STENT ASSEMBLY

5 ABSTRACT OF THE DISCLOSURE

A stent assembly comprises an expandable stent having a first stent backbone which extends from the proximal end of the stent to the distal end of the stent. The stent comprises a first stent backbone oriented in a direction which is substantially parallel to a longitudinal axis of the stent, and a plurality of interconnected first stent members and second stent members. Each of the first stent members is oriented in a substantially longitudinal direction in the unexpanded state and the expanded state. Each of the second stent members is oriented in a substantially longitudinal direction in the unexpanded state and oriented in a substantially circumferential direction in the expanded state. The first stent backbone has a greater column strength than that of the plurality of interconnected stent members.